

What is claimed is:

1. An additive coated resin for use in molding, sintering, or extruding finished parts, the resin comprising:
 - a plurality of polymeric particles; and
 - a coating of at least one additive covering at least a portion of each of the polymeric particles.
2. The resin of claim 1 wherein the polymeric particles are in a form selected from the group consisting of powder, beads, pellets, pillow blocks, and any combinations thereof.
3. The resin of claim 1 wherein the polymeric particles includes a polymeric material, wherein the polymeric material is selected from the group consisting of a polystyrene, polypropylene, polysulphone, polyacrylate, polyamide, polyimide, polyester, polyethylene, polyvinyl, polycarbonate, polybutadiene, elastomers, rubber, and any combinations thereof.
4. The resin of claim 1 wherein the polymeric particles are virgin polymeric particles.
5. The resin of claim 1 wherein the additive is selected from the group consisting of an antioxidant, processing aid, slip agent, anti-blocking agent, antistatic agent, lubricant, UV stabilizer, coupling agent, colorant, pigment, dye, fire retardant, cycle enhancer, electrically conductive material, blowing agent, organic crystal, inorganic crystal, dielectric, metal, mixed metal, metal oxide, mixed metal oxide, mineral, non-woven fiber, flavorant, scent extract, anti-microbial agent, trace element, plant tissue, animal tissue, protein, and any combinations thereof.
6. The resin of claim 1 wherein the coating further includes a complimentary additive, wherein the complimentary additive is selected from the group consisting of a low density polymer, low density monomer, oil, rubber, polyol, plant extract, animal extract, acid, filler, natural wax, and any combinations thereof.

7. The resin of claim 1 wherein a thickness of the coating is equal to or greater than a diameter of an average basic particle size of the additive.
8. The resin of claim 1 wherein the coating covers all surfaces of each polymeric particle thereby forming a layer of the additive on each polymeric particle.
9. The resin of claim 8 wherein the coating includes multiple layers of the additive on each polymeric particle.
10. The resin of claim 1 wherein each polymeric particle is unmodified with respect to meeting its melt index.
11. The resin of claim 1 wherein no portion of each polymeric particle includes a melt history.
12. A method of preparing an additive coated resin for use in molding, sintering, or extruding finished parts, the method comprising the steps of:
 - combining at least one additive, a plurality of polymeric particles, and at least one liquid to form a suspension; and
 - removing at least a portion of the liquid from the suspension to thereby form at least a partial additive coating on each polymeric particle.
13. The method of claim 12 further comprising the step of keeping the suspension in motion during the combining step.
14. The method of claim 13 wherein the at least one additive is de-agglomerated after the combination step.
15. The method of claim 12 further comprising the step of keeping the suspension in motion during the removing step.
16. The method of claim 12 wherein at least 75% of the liquid is removed.

17. The method of claim 15 further comprising removing a remaining portion of the liquid to dry the polymeric particles and thereby form the additive coating on each polymeric particle.
18. The method of claim 12 wherein the removing step is accomplished by changing conditions of temperature and/or pressure of the suspension.
19. The method of claim 12 wherein the removing step is accomplished by heating the suspension to evaporate the liquid.
20. The method of claim 12 wherein the removing step is accomplished by vacuum.
21. The method of claim 12 wherein the polymeric particles are in a form selected from the group consisting of powder, beads, pellets, pillow blocks, and any combinations thereof.
22. The method of claim 12 wherein the polymeric particles includes a polymeric material, wherein the polymeric material is selected from the group consisting of a polystyrene, polypropylene, polysulphone, polyacrylate, polyamide, polyimide, polyester, polyethylene, polyvinyl, polycarbonate, polybutadiene, elastomers, rubber, and any combinations thereof.
23. The method of claim 12 wherein the additive is selected from the group consisting of an antioxidant, processing aid, slip agent, antiblocking agent, antistatic agent, lubricant, UV stabilizer, coupling agent, colorant, pigment, dye, fire retardant, cycle enhancer, electrically conductive material, blowing agent, organic crystal, inorganic crystal, dielectric, metal, mixed metal, metal oxide, mixed metal oxide, mineral, non-woven fiber, flavorant, scent extract, anti-microbial agent, trace element, plant tissue, animal tissue, protein, and any combinations thereof.
24. The method of claim 12 further comprising the step of adding a complimentary additive to the suspension, wherein the complimentary additive is selected from the group consisting of a low density polymer, low density monomer, oil, rubber, polyol, plant extract, animal extract, acid, filler, wax, surfactant, dispersant, and any combinations thereof.

25. A method of preparing an additive coated resin, the method comprising the steps of:
 - combining at least one additive and at least one liquid to form a dispersion;
 - adding a plurality of polymeric particles to the dispersion to form a suspension;

and

 - removing at least a portion of the liquid from the suspension to thereby form an additive coating on each polymeric particle.
26. The method of claim 25 further comprising the step of keeping the suspension in motion during the combining, adding, and removing steps.
27. A method of preparing an additive coated resin, the method comprising the steps of:
 - adding a plurality of polymeric particles to a dispersion of at least one additive in at least one liquid to form a suspension; and
 - removing at least a portion of the liquid from the suspension to thereby form at least a partial additive coating on each polymeric particle.